

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference G144-B-12780WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IB2005/000810	International filing date (day/month/year) 30/03/2005	(Earliest) Priority Date (day/month/year) 01/04/2004
Applicant GRANGER, Maurice		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 1

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

line 18, after "rotation" add "(24)"
line 20, replace "(22)" with "(23)"

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A47K10/38 B65H16/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 A47K B65H B41J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	AT 398 747 B (HAGLEITNER BETRIEBSHYGIENE GESELLSCHAFT M.B.H. & CO.KG) 25 January 1995 (1995-01-25) the whole document -----	1,6,7,9, 10,20,21
A	US 2003/173451 A1 (INANA KATSUYA) 18 September 2003 (2003-09-18) figure 1 figures 1,3b -----	1,10
X	US 4 307 639 A (DELUCA ET AL) 29 December 1981 (1981-12-29) figures 2-4 -----	12,13, 16,18,19
A	----- -/-	1,12, 19-21

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is considered alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

28 July 2005

04/08/2005

Name and mailing address of the ISA

European Patent Office, P.O. Box 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Pillet, D

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96/23719 A (GEORGIA-PACIFIC CORPORATION) 8 August 1996 (1996-08-08) figures 4-6 figure 3	1,20,21 12,13, 16-18
X	DE 94 06 941 U1 (MONHEIMER KETTEN UND METALLWAR 'DE!') 23 June 1994 (1994-06-23) page 4, paragraph 1; figure 3	12,13, 15,16,18
X	US 4 230 286 A (CHARLES ET AL) 28 October 1980 (1980-10-28) column 2, line 39 - line 66; figure 2	12,13, 16,18
X	US 5 997 195 A (BUERGIN ET AL) 7 December 1999 (1999-12-07) figures 1,3	12,13, 15,16,18

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
AT 398747		B	25-01-1995	AT	152993 A	15-06-1994
US 2003173451		A1	18-09-2003	JP CN	2003267596 A 1443653 A	25-09-2003 24-09-2003
US 4307639		A	29-12-1981	US AU AU AU AU BE BR CA CA CA CA CA DE DK FR FR FR GB GB GB GB IT JP JP JP JP LU NL NZ SE	4340195 A 518039 B2 4066378 A 5446580 A 5446680 A 875621 A1 7806827 A 1115668 A1 1127602 A2 1153740 A2 1137935 A2 1127603 A2 2844750 A1 457778 A 2435425 A1 2438617 A1 2445287 A1 2007623 A ,B 2054519 A 2054520 A ,B 2054521 A ,B 2064480 A ,B 1192277 B 1218060 C 54098864 A 58048168 B 81161 A1 7810295 A 188599 A 7810715 A	20-07-1982 10-09-1981 01-05-1980 08-05-1980 08-05-1980 17-10-1979 08-05-1979 05-01-1982 13-07-1982 13-09-1983 21-12-1982 13-07-1982 26-04-1979 15-04-1979 04-04-1980 09-05-1980 25-07-1980 23-05-1979 18-02-1981 18-02-1981 18-02-1981 17-06-1981 31-03-1988 17-07-1984 04-08-1979 27-10-1983 07-09-1979 18-04-1979 15-03-1983 14-04-1979
WO 9623719		A	08-08-1996	AT DE DE DK EP FI IL NO SI WO	219024 T 69621798 D1 69621798 T2 824494 T3 0824494 A1 973153 A 116951 A 973507 A 9620024 A 9623719 A1	15-06-2002 18-07-2002 02-01-2003 23-09-2002 25-02-1998 30-09-1997 17-02-2000 19-09-1997 28-02-1998 08-08-1996
DE 9406941		U1	23-06-1994	NONE		
US 4230286		A	28-10-1980	US AT AT AU AU BE BR CA DE	4174077 A 372719 B 456479 A 528207 B2 4832679 A 877422 A1 7904135 A 1105436 A1 2925973 A1	13-11-1979 10-11-1983 15-03-1983 21-04-1983 10-01-1980 05-11-1979 25-03-1980 21-07-1981 17-01-1980

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
US 4230286	A		FR 2430379 A1 GB 2025365 A ,B IT 1120466 B JP 55011497 A MX 148293 A SE 439149 B SE 7905737 A		01-02-1980 23-01-1980 26-03-1986 26-01-1980 07-04-1983 03-06-1985 04-01-1980
US 5997195	A	07-12-1999	DE 19723076 A1 AT 210066 T CA 2239236 A1 DE 59802294 D1. EP 0882667 A1		03-12-1998 15-12-2001 02-12-1998 17-01-2002 09-12-1998